## CITY OF ALBUQUERQUE



July 28, 2014

Jamie Knollmiller WD Partners 7007 Discovery Blvd. Dublin, OH 43017

Re: BJ's Restaurant and Brewhouse Grading and Drainage Plan Colleen Rezabek Engineer's Stamp with No Date (B14D004E)

Dear Mr. Knollmiller,

Based upon the information provided in your submittal received June 25, 201414, the above referenced plan is approved for Rough Grading Permit on a portion of Tract A-1-A.

Note that a Grading and Drainage Plan will still need to be submitted for Building Permit. See comments dated in the letter of July 24, 2014 that approved this plan for Site Plan for Building Permit Action for DRB..

PO Box 1293

If you have any questions, you can contact me at 924-3986.

Sincerely,

Albuquerque

Amy L. D, Niese, PE

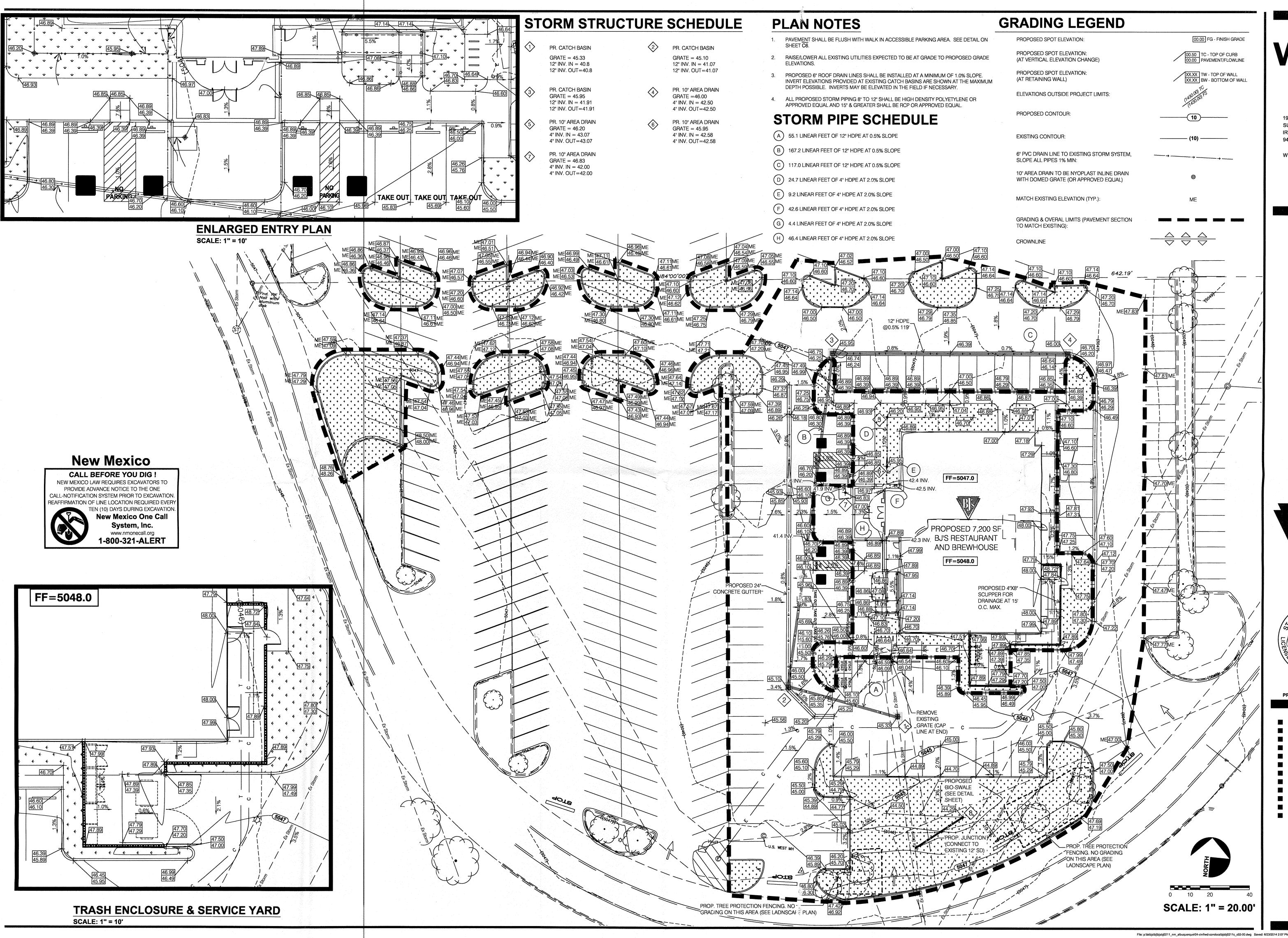
New Mexico 87103

Senior Engineer, Hydrology Planning Department

www.cabq.gov

C: e-mail

Nina Rey – Francher Development



19100 VON KARMAN AVE SUITE 600 IRVINE, CA 92612 949.753.7676 T

WDPARTNERS.COM



PROJECT NO. BJSBJ0211

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**IRVINE, CA 92612** 

949.753.7676 T

**REVISIONS** 

PROJECT NO. BJSBJ0211

SOIL EROSION CONTROL NOTES ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL, STATE,

AND FEDERAL STANDARDS. AN EPA EQUIVALENT NOTICE OF INTENT LETTER SHALL BE POSTED IN

THE JOB TRAILER AT ALL TIMES. THIS SITE SHALL BE PROTECTED BY MEANS DESCRIBED IN THE

A COPY OF THIS SHEET AND THE EROSION CONTROL PLAN MUST BE KEPT ON-SITE THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. ANY CHANGES MADE TO THIS PLAN MUST BE NOTED, DATED, AND INITIALED BY THE GENERAL CONTRACTOR.

ACCOMPANYING PLANS. IF THERE ARE ANY QUESTIONS REGARDING EROSION CONTROL

MEASURES, THE CIVIL ENGINEER OF RECORD MUST BE CONTACTED.

### I. GENERAL

FRONT VIEW

ONGITUDINAL-SECTION

DANDY BAG

FOR CATCH BASINS

\$5'-0" MIN TO 8'-0" MAX

SLICING

METHOD

**TRENCHING** 

i Maraza

HE INTENT OF THIS PLAN IS TO CONTROL EROSION AND RESULTING SILT TRANSPORTATION OFF SITE. THE ITEMS INDICATED ARE THE ENGINEER'S BEST ESTIMATE OF REQUIREMENTS; MORE CONTROL MAY BE NEEDED DEPENDING ON SITE CONDITIONS, SEASON, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY TO COMPLY WITH THIS INTENT. ALL CHANGES TO THE SWPPP MUST BE NOTED.

- BEST MANAGEMENT PRACTICES PLAN, WITH ALL SEDIMENT AND EROSION CONTROL PLANS. SHALL BE KEPT ON-SITE WITH COPIES OF ALL INSPECTION REPORTS.
- EXISTING TOPOGRAPHY AND PROPOSED TOPOGRAPHY ARE SHOWN ON THE GRADING
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITY TAKING PLACE.
- OTHER FEDERAL, LOCAL, OR STATE STATUTES OR REQUIREMENTS THAT MAY AFFECT THE PERMIT REQUIREMENTS FOR THIS SITE:
  - 1. NPDES CONSTRUCTION STORM WATER MANAGEMENT DISCHARGE CRITERION
  - 2. UNITED STATES ARMY CORPS OF ENGINEERS
  - 3. LOCAL SEDIMENT CONTROL ORDINANCES 4. HAZARDOUS WASTE CONCERNS
  - 5. PROTECTED SPECIES, HISTORICAL PRESERVATION, ETC
- MATERIAL NEEDS AFFECTING ENVIRONMENTAL ASPECTS OF THE SITE
  - 1. HAUL-IN / HAUL-OFF 2. TOPSOIL SPOIL OR HAUL-IN
- PLANNED PHASES OF CONSTRUCTION.
- FLAG ALL WORK LIMITS. 2. CALL THE STATE UTILITY PROTECTION SERVICE TO VERIFY LOCATION OF ANY EXISTING UTILITIES TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION. 3. NOTIFY SEDIMENT CONTROL INSPECTOR TWENTY-FOUR (24) HOURS PRIOR TO START OF CONSTRUCTION.
- 4. IDENTIFY AND PROTECT ALL EXISTING VEGETATION TO REMAIN. 5. PERFORM CLEARING AND GRADING REQUIRED FOR INSTALLATION OF PERIMETER
- CONTROLS. 6. INSTALL PERIMETER RUNOFF CONTROLS; NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL BEFORE PROCEEDING FURTHER.
- 7. INSTALL STORM DRAINAGE PROTECTION.
- 8. CLEAR AND STABILIZE CONSTRUCTION ACCESS 9. COMPLETE ALL REQUIRED STOCKPILING, SITE CLEARING, AND GRADING.
- 10. APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK MAY BE DELAYED OR IS COMPLETE. DO NOT LEAVE LARGE AREAS UNPROTECTED FOR MORE THAN SEVEN (7) DAYS 11. CONSTRUCT PARKING LOT BASE, BUILDING FOUNDATION, AND INSTALL SITE
- UTILITIES. 12. WEATHER-IN BUILDING.
- 13. COMPLETE PARKING LOT CONSTRUCTION.
- 14. COMPLETE FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- 15. NOTIFY SEDIMENT CONTROL INSPECTOR AND OBTAIN APPROVAL TO REMOVE SEDIMENT AND EROSION CONTROL MEASURES.

### II. IMPLEMENTATION

PLANNED CONSTRUCTION PHASING AND SPECIFIC REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.

- <u>PHASE 1</u>: TOPSOIL STRIPPING AND STOCKPILING THIS IS THE PHASE AFTER ALL DEBRIS REMOVAL. TOPSOIL WILL BE STRIPPED AND STOCKPILED ON THE SITE AS SHOWN ON THE PLANS. THE FOLLOWING REQUIREMENTS WILL APPLY DURING THIS PHASE OF
  - 1. CONSTRUCTION OF A "STONE" CONSTRUCTION ENTRANCE SHALL BE COMPLETED TO G. MAINTAINING EFFECTIVENESS:
  - PREVENT SILT FROM BEING DEPOSITED ON ROADWAYS. 2. SILT FENCES AND/OR DIVERSIONS DIRECTING RUNOFF TO TEMPORARY SEDIMENT BASINS SHALL BE PLACED ON THE DOWNHILL SIDE OF WHEREVER DIRT HAS BEEN DISTURBED BY GRADING TO PREVENT SILT FROM LEAVING THE SITE. SPECIFIC
  - ATTENTION SHOULD BE PAID TO CULVERTS AND CONSTRUCTION ENTRANCES. 3. ALL DEBRIS SHALL BE KEPT AWAY FROM DITCHES AND STREAMS TO PREVENT RUN-OFF ACCUMULATION WILL NOT CARRY DEBRIS DOWNSTREAM. 4. SILT FENCES OR DOUBLE SILT FENCES SHALL BE INSTALLED ALONG THE LOW SIDE
  - OF THE SITE WHERE RUN-OFF FROM THE WORK AREA WILL LEAVE THE SITE OR ENTER A DITCH.
  - 5. SILT TRAPS AND SEDIMENT BASINS SHALL BE INSTALLED WHERE SHOWN ON THE PLANS IN ACCORDANCE WITH DETAILS SHOWN TO CATCH AND FILTER RUN-OFF
  - PRIOR TO DISCHARGE FROM THE SITE
  - 6. ADDITIONAL SILT FENCING AROUND THE STOCKPILE AREA SHOULD BE INSTALLED TO PREVENT SILT WASH OFF FROM THE SITE.
- PHASE 2: GRADING OPERATIONS THIS PHASE IS THAT TIME WHEN EARTH IS BEING MOVED
- FROM ONE PORTION OF THE SITE TO ANOTHER OR IS BEING HAULED INTO OR HAULED OFF FROM THE SITE. THIS IS A CRITICAL TIME WHEN SEDIMENT AND EROSION CONTROL FACILITIES MUST BE CONTINUALLY CHECKED TO ENSURE EFFECTIVENESS. MEASURES SHOULD BE CHANGED OUT AS OFTEN AS REQUIRED TO MEET DEMANDS OF CURRENT SITE CONDITIONS. THE FOLLOWING WILL APPLY TO THIS STAGE OF CONSTRUCTION:
- 1. ALL SEDIMENT CONTROL FACILITIES REQUIRED AND INSTALLED DURING PHASE 1 SHALL BE LEFT IN PLACE AND MAINTAINED AS APPROPRIATE
- 2. WHENEVER A SILT CONTROL FACILITY IS REMOVED BECAUSE OF CHANGING SITE CONDITIONS IT SHALL BE IMMEDIATELY REPLACED WITH ANOTHER MEASURE OF EQUAL OR GREATER EFFECTIVENESS THAT WILL CONTRIBUTE TO THE PROGRAM OF SILT AND EROSION CONTROL.
- 3. CUT SLOPES SHALL BE PROTECTED BY CONSTRUCTING SWALES AT THE TOP OF CUT SLOPES TO INTERCEPT RUN-OFF. SWALES WILL BE CONSTRUCTED WITH RIP-RAP CHECK DAMS OR SILT FENCES AS NECESSARY TO PREVENT EROSION AND SILTATION. 4. FILL SLOPES SHALL BE PROTECTED BY THE CONSTRUCTION OF BERMS AT THE TOP
- 5. WHEN SHOWN ON PLAN, RUN-OFF DIRECTING BERMS FOR UPGRADE RUN-OFF SHALL BE CONSTRUCTED ALONG SLOPE TO DRAINS THAT WILL CARRY RUN-OFF DOWN THE SLOPE. SLOPE DRAINS SHALL HAVE INLET SILT PROTECTION TYPICAL OF OTHER SITE STORM INLET PROTECTION.

OF ALL FILL SLOPES TO PREVENT UNCONTROLLED RUN-OFF DRAINING DOWN FACE

- 6. SILT FENCES SHALL BE IN PLACE AT THE TOE OF ALL FILL SLOPES. 7. TERRACES, BERMS, AND SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECESSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS APPROPRIATE WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER
- ACCUMULATED SEDIMENT FROM RUN-OFF PRIOR TO DISCHARGE FROM THE SITE. 8. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH FOUR INCHES (4") OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED. THIS GROWING VEGETATION WILL GIVE ADDED PROTECTION TO THE SLOPE.
- 9. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE FOUR INCHES (4") OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE
- EROSION AND SEDIMENT CONTROL PROCESS. 10. STORM SEWERS SHOULD BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT TO GRADING OPERATIONS WHENEVER POSSIBLE TO ENSURE A SUCCESSFUL PROGRAM. CONSTRUCTION RUN-OFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE

- COMPLETED AFTER OR CONCURRENT WITH THE GRADING PHASE, PHASE 2. STORM SEWERS SHALL BE INSTALLED AND PUT INTO SERVICE AS EARLY IN THE GRADING PROCESS AS POSSIBLE. THE FOLLOWING WILL APPLY TO THIS PHASE OF CONSTRUCTION: 1. ALL ASPECTS OF THE PREVIOUS PHASES SHALL BE MAINTAINED AS APPLICABLE. 2. STORM SEWERS THAT ARE INSTALLED SHALL BE PUT INTO SERVICE IMMEDIATELY THE INLETS OF ALL STORM SEWERS SHALL BE PROTECTED WITH SILT TRAPS THAT
- PREVENT SEDIMENT FROM ENTERING PIPE. THIS PROTECTION CAN BE SILT FENCE OR RIP-RAP FILTER BERMS AS APPLICABLE AND SHOWN ON THE PLANS. 3. RIP-RAP AS SHOWN ON THE PLANS AND AS REQUIRED ON THE SITE WILL BE
- INSTALLED AT EMERGENCY SPILLWAYS TO PREVENT EROSION DUE TO OUTFLOW WATER VELOCITY. RIP-RAP SHALL BE EXTENDED DOWNSTREAM AS NEEDED TO PREVENT EROSION.
- 4. ADDITIONAL SILT FENCING SHALL BE INSTALLED AS NECESSARY TO PREVENT EROSION AND SILTATION RESULTING FROM STOCKPILED EXCAVATION MATERIAL FROM UTILITY INSTALLATION OPERATIONS.
- PHASE 4: FINISH GRADING, CURB AND PAVEMENT INSTALLATION, LANDSCAPING THIS IS THE WRAP-UP STAGE WHEN ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WILL BE PHASED OUT. THE FOLLOWING WILL APPLY TO THIS PHASE:
- ALL FACILITIES FROM PHASE 1 THROUGH PHASE 4 WILL BE MAINTAINED, MODIFIED.
  - OR REMOVED WHEN APPROPRIATE. 2. SILT TRAPS AROUND DRAINAGE INLETS WILL BE MAINTAINED, MODIFIED AS
- NECESSARY, AND REMOVED WHEN APPROPRIATE 3. ALL AREAS NOT RECEIVING PAVEMENT OR BUILDINGS SHALL HAVE FOUR INCHES (4") OF TOPSOIL SPREAD OVER THE AREA AND GRASSED, OR HAVE LANDSCAPING,
- 4. CONTRACTOR MAY TEMPORARILY COVER SOME AREAS WITH 21/2 " THICK GRADED AGGREGATE IN LIEU OF GRASSING FOR TEMPORARY EROSION CONTROL.

MULCHING AND/OR SOD INSTALLED PER THE PLANS

E. LANDSCAPING / SEEDING

REFER TO LANDSCAPING PLAN FOR ACTUAL REQUIREMENTS FOR THE INSTALLATION OF LIME, FERTILIZER, SEED, AND MULCH. GRASSING OPERATIONS SHALL BE COMPLETED THROUGHOUT CONSTRUCTION PROCESS AT THOSE TIMES WHEN PORTIONS OF THE SITE ARE FINISHED AND READY FOR PERMANENT GROUND COVER. THIS WILL REQUIRE MULTIPLE EFFORTS BY THE GRASSING SUBCONTRACTOR TO STABILIZE ALL IMPACTED AREAS OF THE SITE IN AN ORDERLY FASHION. NO AREA OF THE SITE THAT RECEIVES FINAL GRADE SHALL BE LEFT FOR MORE THAN SEVEN (7) DAYS WITHOUT THE APPLICATION OF SEED AND MULCH.

F. INSPECTION AND MAINTENANCE INSTRUCTIONS: THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AND SEDIMENT CONTROL

- 1. ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO ENSURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. MEASURES SHALL BE INSPECTED ONCE A WEEK (MINIMUM) AND WITHIN TWENTY-FOUR (24) HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NONFUNCTIONAL FACILITY SHALL BE REPAIRED OR REPLACED IMMEDIATELY. WEEKLY INSPECTION REPORTS SHALL BE KEPT ON FILE IN THE CONSTRUCTION TRAILER.
- SEDIMENT TRAPS SHALL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN SUITABLE AREAS AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE CONTINUED SEDIMENTATION PROBLEMS
- 3. GRAVEL OUTLETS AND CHECK DAMS SHALL BE INSPECTED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS OBSTRUCTED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED. 4. SILT FENCE BARRIERS SHALL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL
- OF DEPOSITION REACHES ONE-THIRD THE HEIGHT OF THE BARRIER. 5. SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-SEEDED AS NECESSARY 6. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED PORTION SHALL BE REMOVED AND REPLACED ACCORDING TO THE ASSOCIATED
- 7. IF SILT HAS OBSTRUCTED THE SEDIMENT CONTROL FACILITY TO THE POINT OF ELIMINATING ALL FILTERING EFFECTIVENESS, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH THE ASSOCIATED
- 8. CONSTRUCTION STAGING AREA SHALL HAVE ADDITIONAL STONE ADDED AS MUD COVERS STONE. UNDER WET SOIL CONDITIONS, TIRES SHALL BE WASHED PRIOR TO
- ENTERING A PAVED ROADWAY.

CONTRACTOR SHALL INSPECT OVERALL PERFORMANCE OF EROSION AND SEDIMENT CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, NOTIFY THE CIVIL ENGINEER. THE CIVIL ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND ADD ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. CONTRACTOR SHALL IMPLEMENT RECOMMENDED SOLUTIONS TO PROBLEM AREAS AS

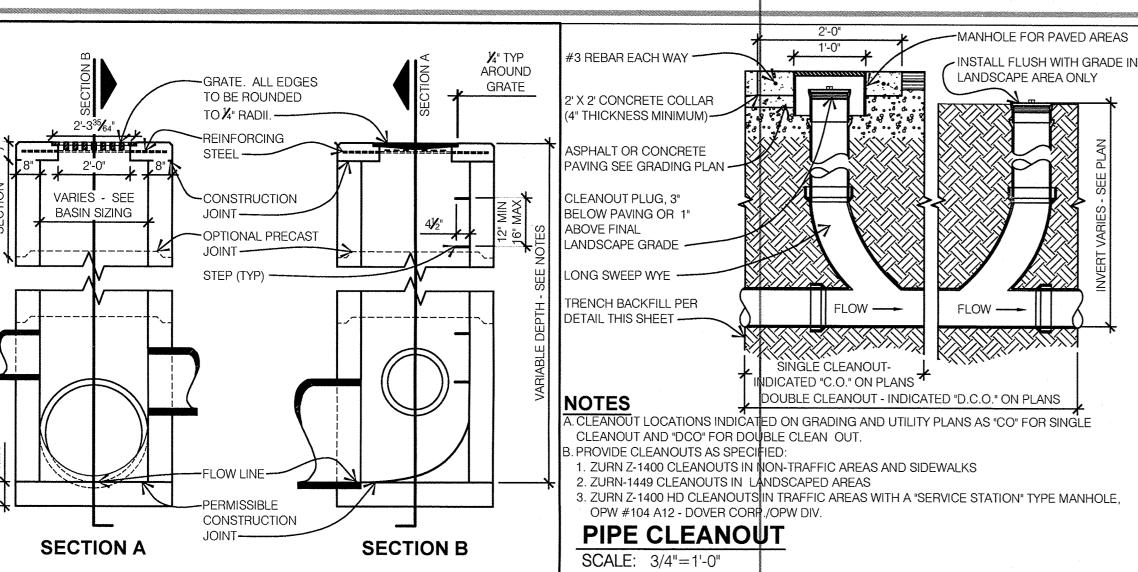
### RECOMMENDED. III. COMPLETION

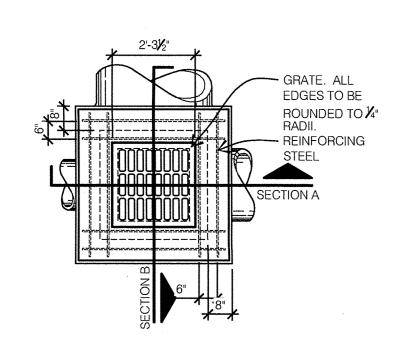
PROJECT CLOSE OUT: THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT

- 1. INSPECT SITE TO ENSURE THAT GROUND COVER IS COMPLETE AND ADEQUATE. ALL AREAS SHOULD BE EITHER PAVED OR HAVE SUFFICIENT GROUND COVER (MINIMUM 80% VEGETATIVE COVER) WITH NO APPARENT EROSION.
- 2. WHEN GROUND COVER INSPECTION IS MADE AND APPROVED, ALL STRUCTURAL EROSION CONTROL FACILITIES MAY BE REMOVED ALONG WITH ANY ACCUMULATED SILT AND DEBRIS. AREAS DISTURBED BY STRUCTURE REMOVAL SHALL BE FINE
- GRADED, GRASSED, AND MULCHED AS REQUIRED 3. IF GROUND COVER INSPECTION IS MADE AND PROBLEMS DISCOVERED, PERFORM APPROPRIATE REPAIR MEASURES AND RE-INSPECT PRIOR TO STRUCTURE REMOVAL 4. ALL CONSTRUCTED AND EXISTING STORM SEWERS SHALL BE INSPECTED UPON REMOVAL OF INLET PROTECTION. STRUCTURES CONTAINING SEDIMENT AND / OR CONSTRUCTION DEBRIS SHALL BE VACUUM CLEANED PRIOR TO FILING NOTICE OF TERMINATION WITH ENVIRONMENTAL PROTECTION AGENCY.
- MISCELLANEOUS ISSUES
  - 1. NO FUEL OR OIL SHALL BE STORED ON SITE WITHOUT PROPER CONTAINMENT. 2. NO OILS OR GAS SHALL BE DUMPED ON SITE
  - 3. LOCATION OF TRAILER AND PORTABLE RESTROOM FACILITY SHALL BE FIELD-DETERMINED TO AVOID CONSTRUCTION ACTIVITIES. LOCATION SHALL CHANGE DURING CONSTRUCTION AS NECESSARY
  - 4. DE-WATERING OPERATIONS ARE NOT REQUIRED ON THIS PROJECT. IF REQUIRED, PUMPED GROUND WATER SHALL BE ROUTED THROUGH SILT CONTROL FACILITY TO FILTER WATER PRIOR TO DISCHARGE. 5. PROJECT SITE SHALL BE KEPT CLEAR OF ALL TRASH AND CONSTRUCTION DEBRIS.
  - CONTRACTOR SHALL HAVE TRASH COLLECTED WEEKLY AND PLACED IN DUMPSTER TO BE HAULED OFF-SITE. 6. ALL WATER SUPPLY WILL BE PROVIDED FROM PUBLIC WATER SUPPLY. 7. ALL HUMAN WASTE SHALL BE IN PORTABLE RESTROOM FACILITY OR IN TOILET
  - CONNECTED TO PUBLIC SEWER SYSTEM. WASTES SHALL BE DISPOSED OF BY A LICENSED VENDOR OR IN A PUBLIC SANITARY SEWER SYSTEM. 8. ANY SPILLED OIL, GAS, ETC. RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED IMMEDIATELY. CONTAMINATED SOILS SHALL BE
  - DISPOSED OF IN AN APPROVED MANNER AT A LICENSED LANDFILL 9. DUST SUPPRESSION OPERATIONS SHALL BE PERFORMED BY MEANS OF A WATER TRUCK DISTRIBUTING A FINE MIST OF WATER ON THE SITE SURFACE.
  - CONCENTRATED STREAMS OF WATER SPRAY SHOULD BE AVOIDED. 10. A DESIGNATED CONCRETE SPOILS AREA SHALL BE IDENTIFIED ON THE SITE, ALL AFFECTED SOILS AND CONCRETE SPOILS IN THIS AREA SHALL BE REMOVED FROM

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THE SITE UPON COMPLETION OF CONCRETE PLACEMENT ACTIVITIES. 11. ANY NON-STORM DISCHARGES SUCH AS, BUT NOT LIMITED TO, FIRE HYDRANT FLUSHINGS, WASH WATERS, DUST CONTROL, IRRIGATION DRAINAGE, ETC., THAT DO NOT CONTAIN HAZARDOUS MATERIALS SHALL BE PREVENTED FROM ALLOWING SEDIMENT TRANSPORT INTO STORM SEWERS. FLUSHINGS THAT CONTAIN HAZARDOUS MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWERS AND SHALL BE COLLECTED AND DISPOSED OF IN AN APPROVED MANNER.





BASIN SIZING					
INSIDE DIMENSION	PIPE SIZE	TOP SLAB REINFORCING AT 6" O.C.			
3'-0" x 3'-0"	UP TO 33"	(8) #4 BARS			
4'-0" x 4'-0"	36" TO 42"	(12) #4 BARS			

**PLAN** 

		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>			
CONCRETE TABLE						
TYPE OF AGGREGAT	DRY AGGREGATES (LB/C.Y.)			CEMENT CONTENT	WATER- CEMENT RATIO	
E	FINE	COARSE	TOTAL	(LB/C.Y.)	(MAX)	
GRAVEL	1160	1735	2895	600	0.5	

SLAG 1350 1360 2710 600

- NOTES A. GRATE: NEENAH NO. R-4859-C OR EAST JORDAN NO. 5110 TYPE M3 OR APPROVED EQUAL . WALLS: CAST-IN-PLACE WALLS SHALL HAVE A NOMINAL THICKNESS OF 8". PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" AND BE REINFORCED SUFFICIENTLY TO PERMIT
- SHIPPING AND HANDLING WITHOUT DAMAGE. PRECAST TOPS SHALL BE 8" THICK. :. STEPS: STEPS SHALL BE PROVIDED WHERE THE DEPTH OF THE STRUCTURE EXCEEDS 6' CONCRETE: CAST-IN-PLACE CONCRETE TO MEET THE COMPOSITION SPECIFIED IN THE CONCRETE TABLE. ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C478. E. INLETS OVER 12' IN DEPTH SHALL BE PRECAST OR CAST-IN-PLACE CONCRETE; REINFORCED
- WITH #4 BARS ON 12" CENTERS BOTH VERTICALLY AND HORIZONTALLY WITH 2" CLEARANCE FROM INSIDE WALL FACE. . PRECAST BASE: IF A PRECAST BASE IS USED, IT SHALL BE SET DEEP ENOUGH SO THAT THE TOP CAN BE PLACED ON THE BASE TO PROVIDE THE GRATE ELEVATION SPECIFIED IN THE
- PLANS. PRECAST GRADE RINGS MAY BE USED TO ADJUST THE TOP ELEVATION. \*\*OR\*\* A MINIMUM OF TWO COURSES OF BRICK SHALL BE USED TO ADJUST THE TOP ELEVATION. G. LOCATION AND ELEVATION: WHEN GIVEN ON THE PLANS, THE LOCATION AND THE ELEVATION  $^\circ$ ARE AT THE TOP CENTER OF THE GRATE.
- H. MINIMUM DEPTH: THE MINIMUM DEPTH SHALL BE THE OUTSIDE DIAMETER (O.D.) OF THE OPENINGS: PIPE OPENINGS SHALL BE THE O.D. OF THE PIPE BEING SUPPLIED PLUS 2" WHEN

PREFABRICATED OR FIELD CUT. THE INTERSTITIAL SPACE SHALL BE FILLED WITH GROUT.

## **SQUARE CATCH BASIN**

**New Mexico** 

**CALL BEFORE YOU DIG!** 

NEW MEXICO LAW REQUIRES EXCAVATORS TO

PROVIDE ADVANCE NOTICE TO THE ONE

CALL-NOTIFICATION SYSTEM PRIOR TO EXCAVATION

REAFFIRMATION OF LINE LOCATION REQUIRED EVER'

TEN (10) DAYS DURING EXCAVATION

New Mexico One Call

System, Inc.

www.nmonecall.org

1-800-321-ALERT

## SCALE: 3/8"=1'-0"

# 50'-0" MINIMUM 31/2" DIAMETER COARSE HOC FILTER CLOTH ENCASIN ENTIRE STABILIZED ROC **ADJACENT** 5:1 MAX ACCESS ENTRANCE SIDES AND BOTTOM -- MOUNTABLE SECTION

SILT FENCE

SCALE: 3/8"=1'-0"

NOTES

A. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS W/ WIRE TIES OR STAPLES

C. WHEN TWO SECTIONS OF FABRIC ADJOIN EACH OTHER THEY SHALL OVERLAP BY (6) INCHES.

E. MAINTENANCE SHALL BE PERFORMED AFTER EACH RAINFALL AND AS NEEDED, SEDIMENT TO

B. FABRIC FASTENED SECURELY TO FENCE W/ TIES SPACED AT 24" AT TOP AND MID SECTION.

STEEL EITHER "T" OR "U" TYPE OR 4" HARDWOOD

WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING

WOVEN POLYPROPYLENE, POLYTHYLENE, OR POLYAMIDE FABRIC OR

SQUARE INCH AND ULTRAVIOLET STABILITY EXCEEDING 70%. FILL

OR SUITABLE OPEN GRADED, NON-COHESIVE, POROUS GRAVEL

32.0" MIN

VELCRO CLOSURE ---

FLAP FOLDS OVER TO

MOVEMENT OF UNIT -

STANDARD FABRIC

ORANGE WOVEN

MONOFILAMENT:

DANDY BAG -

CATCH BASIN -

GRATE -

INSTALLATION: THE DANDY PRODUCT SHOULD BE PLACED OVER THE GRATE AS THE GRATE

STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW ON POUCH,

ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER

LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE

GRATE), PLACE THE GRATE INTO ITS FRAME. FOLLOW ALL MANUFACTURES RECOMMENDATIONS.

LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE

VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED

WITHIN THE CONTAINMENT AREA OF THE BEAVER DAM AS NEEDED. IF USING OPTIONAL OIL

ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

B. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND

ENCLOSE GRATE -

LIFTING STRAPS

ALLOW EASY

FLOW -

SCALE: NONE

\*\*LOW PROFILE WITH GUTTER

\*\*DESIGN CONFORMS TO

SCALE: NONE

2'-0" MIN HEIGHT OF FABRIC ABOVE

WIRE TYPICAL OF EACH METHOD -

8" MIN DEPTH OF FABRIC BELOW GRADE

48" MIN. FENCE POSTS, DRIVEN MINIMUM 24"

COMPACTING BACKFILL IF TRENCHING METHOD

IS USED. POST INSTALLED AFTER COMPACTION

TRENCHING METHOD: FABRIC MATERIAL TO BE

PLACED IN 6"x6" TRENCH WITH "L" SHAPED DOGLEG

BEFORE BACKFILLING AND COMPACTING THE SOIL -

FILTER CLOTH: FILTER X, MIRAFI 100X, OR APPROVED EQUAL

PREFAB UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

D. LOCATE POSTS DOWN SLOPE OF FABRIC FOR FENCE SUPPORT.

WHEN SLICING METHOD IS USED. —

INTO GROUND. INSTALL POST BEFORE

WHEN SLICING METHOD IS USED. ---

**SPECIFICATIONS** 

FENCE:

GRADE FASTENED TO POST AND

FOR SAFETY AND CURB APPEAL

ALL SHAPES OF CONCRETE CURBS

C. ONLY APPROVED EQUALS WILL BE ACCEPTED.

INLET PROTECTION

MANUFACTURER: DANDY PRODUCTS (CONTACT#: 800-591-2284).

CURB AND

NOTES

GUTTER INLE

**GRAVEL BAG BARRIER** 

BEAVER DAM FOR

**CURB INLETS** 

BURLAP BAGS WITH A MINIMUM WEIGHT OF 4 OUNCES PER SQUARE YARD.

BAGS SHOULD HAVE A MULLEN BURST STRENGTH OF 300 POUNDS PER

MATERIAL SHOULD BE 0.5" TO 1" CLASS 2 AGGREGATE BASE, CLEAN AND

FREE FROM CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL,

- A. STONE SIZE USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
- B. LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET

BE REMOVED IMMEDIATELY.

BE REMOVED WHEN "BULGES" DEVELOP.

- C. <u>DEPTH</u> NOT LESS THAN SIX (6) INCHES D. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS
- WHERE INGRESS OR EGRESS OCCURS E. FILTER CLOTH - PLACE OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE
- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
- G. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST
- H. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. USE WATERING TRUCK OR ONSITE SUPPLY AS AVAILABLE.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN

STABILIZED CONSTRUCTION ENTRANCE



**LEGEND** 

**REVISION DESCRIPTION** 

INLET PROTECTION OR SILT TRAP/SEDIMENT BASIN:

PROPOSED WASHOUT AREA

**EXISTING CONTOUR:** 

PROPOSED CONTOUR:

CONSTRUCTION FENCE

GRAVEL BAG BARRIER

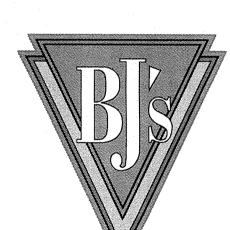
TEMPORARY SOIL STOCKPILE AREA:

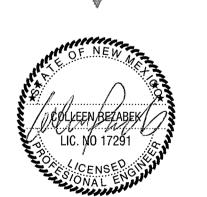
19100 VON KARMAN AVE IRVINE, CA 92612 949.753.7676 T

WDPARTNERS.COM

7 PROTOTYPE

INITIALS





PROJECT NO. BJSBJ0211

REVISIONS

TEN (10) DAYS DURING EXCAVATION New Mexico One Call System, Inc.

www.nmonecall.org

1-800-321-ALERT

0 10 20 **SCALE: 1" = 20.00'**